



PATENT

Attorney Docket No. 02-406 (80345)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

LIU et al.

Application No.: 10/619,449

Group Art Unit: Not Assigned Yet

Filed: July 16, 2003

Examiner: Not Assigned Yet

For: **STRENGTH-ENHANCED, LIGHTWEIGHT LIGNOCELLULOSIC COMPOSITE
BOARD MATERIALS AND METHODS OF THEIR MANUFACTURE**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

October 27, 2003

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

In re Appln. of LIU et al.

The Information Disclosure Statement is being filed:

- (X) **within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.
- () **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:
 - () the Statement under 37 CFR 1.97(e) (see “Statement under 37 CFR 1.97(e)” below).
 - or*
 - () the fee of \$180 set forth in 37 CFR 1.17(p) (see “Fees” below).
- () **after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see “Statement under 37 CFR 1.97(e)” below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see “Fees” below).
- () **after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see “Statement under 37 CFR 1.704(d)” below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see “Fees” below).

NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

Copies of the References

- (X) Copies of the Non Patent Literature Documents listed on the enclosed Form 1449 are enclosed herewith.
- () A copy of the European Search Report is enclosed herewith.

In re Appln. of LIU et al.

- () The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

Statement under 37 CFR 1.97(e)

- () The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- () The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Statement under 37 CFR 1.704(d)

- () The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

In re Appln. of LIU et al.

Fees

- (X) No fee is owed by the applicant(s).
- () The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

Method of Payment of Fees

- () Attached is a check in the amount of \$180.00.
- () Charge Deposit Account No. 06-1135 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)

Authorization to Charge Additional Fees

- () If any additional fees are owed in connection with this communication, please charge Deposit Account No. 06-1135. (A duplicate copy of this communication is enclosed for that purpose.)

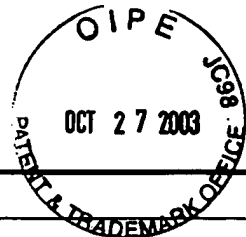
Instructions as to Overpayment

- () Credit Account No. 06-1135.
- () Refund

Respectfully submitted,

By: Ramon R Hoch
Ramon R. Hoch
Registration No. 34,108
Consulting Attorney

J.M. Huber Corporation
333 Thornall Street
Edison, New Jersey 08837
Telephone: (732) 603-3688
Facsimile: (732) 603-8730



PTO/SB/08A Substitute for Form PTO-1449				Application Number	10/619,449
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	July 16, 2003
				First Named Inventor	LIU, Feipeng
				Art Unit	Not Assigned Yet
				Examiner Name	Not Assigned Yet
Sheet	1	of	2	Attorney Docket	02-406 (80345)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ²			
		US-3,515,569	06-02-1970	Walters et al.	
		US-3,707,434	12-26-1972	Stayner	
		US-3,857,731	12-31-1974	Merrill, Jr. et al.	
		US-4,013,810	03-22-1977	Long	
		US-4,134,848	01-16-1979	Adicoff et al.	
		US-4,250,136	02-10-1981	Rex	
		US-4,661,301	04-28-1987	Okada et al.	
		US-4,722,943	02-02-1988	Melber et al.	
		US-4,726,986	02-23-1988	Cannady, Jr. et al.	
		US-4,753,831	06-28-1988	Hosoyamada et al.	
		US-4,944,823	07-31-1990	Stofko	
		US-5,554,429	09-10-1996	Iwata et al.	
		US-5,888,642	03-30-1999	Meteer et al.	
		US-5,935,699	08-10-1999	Barber	
		US-6,133,330	10-17-2000	Weiser et al.	
		US-6,127,457	10-03-2000	Darling	
		US-6,136,408	10-24-2000	Radcliffe et al.	
		US-6,171,688-B1	01-09-2001	Zheng et al.	
		US-6,251,979-B1	06-26-2001	Luongo	
		US-6,479,127-B1	11-12-2002	Kornicer et al.	
		US-6,518,333-B2	02-11-2003	Liu et al.	

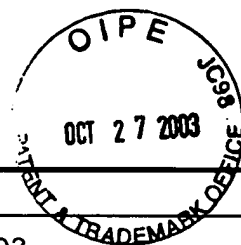
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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		First Named Inventor		LIU, Feipeng	
		Art Unit		Not Assigned Yet	
		Examiner Name		Not Assigned Yet	
Sheet	2	of	2	Attorney Docket	02-406 (80345)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		"Dualite...Your best choice in lightweight microspheres...", Product Brochure, June 1992, 4 pages, Pierce & Stevens Corp., Buffalo, N.Y., U.S.A.	
		Lenth, Christopher A., et al., "Investigations of Flakeboard Mat Consolidation," Wood and Fiber Science, April 1996, 153-167, 28(2), Soc. of Wood Sci. & Techn.	
		"Dualite Product Information M6001AE," Product Brochure, July 1999, 1 page, Pierce & Stevens Corp., Buffalo, N.Y., U.S.A.	
		Dualite Product Information M7020," Product Brochure, July 1999, 1 page, Pierce & Stevens Corp., Buffalo, N.Y., U.S.A.	
		"3M™ Microspheres," Product Brochure, September 2000, 6 pages, 3M Specialty Materials, St. Paul, Minnesota, U.S.A.	
		"Eccosphere® Microspheres Macrospheres," Product Brochure, 2001 (month unknown), 10 pages, Emerson & Cuming Composite Materials, Inc., Canton, Massachusetts, U.S.A.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.